

# Traumatic Brain Injury -- Outpatient Observation Stays

2004\*

## MASSACHUSETTS RESIDENTS

INJURY CAUSE	INJURY INTENT					Total Number	Percent of Total	Rate per 100,000 <sup>2</sup>
	Uninten- tional	Intentional		Undeter- mined	Other & Legal <sup>1</sup>			
		Self- Inflicted	Assault					
Cut/pierce	0	0	4	0	0	4	0.3	0.1
Drowning/submersion	0	0	0	0		0	0.0	--
Fall	499	0	0	0		499	40.7	7.8
Fire/burn	0	0	0	0		0	0.0	--
Firearms	0	0	0	0	0	0	0.0	--
Machinery	0					0	0.0	--
Natural/environmental	2	0		0		2	0.2	--
Overexertion	2					2	0.2	--
Poisoning	13	0	0	1	0	14	1.1	--
Struck by, against	87		80		0	167	13.6	2.6
Suffocation/hanging	0	0	0	0		0	0.0	--
Transport Injuries:	390	0	0	1	0	391	31.9	6.1
<i>Motor vehicle traffic-related</i>	313	0	0	1		314	25.6	4.9
<i>Occupant</i>	238					238	19.4	3.7
<i>Motorcyclist</i>	23					23	1.9	0.4
<i>Pedal cyclist</i>	15					15	1.2	0.2
<i>Pedestrian</i>	31					31	2.5	0.5
<i>Other person</i>	2					2	0.2	--
<i>Unspecified person</i>	4					4	0.3	--
<i>Pedal cyclist, other</i>	45					45	3.7	0.7
<i>Pedestrian, other</i>	0					0	0.0	--
<i>Other transport</i>	32					32	2.6	0.5
Other specified & classifiable	4	0	5	0	0	9	0.7	0.1
Other specified, not classifiable	3	1	2	0	0	6	0.5	0.1
Unspecified	11	1	11	1	0	24	2.0	0.4
Adverse effects <sup>3</sup>						1	0.1	--
No cause or intent provided						107	8.7	1.7
TOTALS <sup>4</sup>	1,011	2	102	3	0	1,226	100%	19.1
RATE BY INTENT/per 100,000	15.8	--	1.6	--	--			

Source: MA Outpatient Observation Stay Database, MA Division of Health Care Finance and Policy.

\*All data sets from Health Care Finance and Policy are based on a fiscal year. The numbers provided here are based on fiscal year: October 1, 2003 - September 30, 2004 and will be different than numbers generated through the Department's query based system MassCHIP.

<sup>1</sup> Legal Intervention includes injuries resulting from police actions and operations of war.

<sup>2</sup> Rates are not calculated on counts of less than five. Rates that are based on counts less than twenty may be unstable. Rates provided here are not age-adjusted and may differ slightly from other department publications.

<sup>3</sup> Adverse Effects can be related to medical and surgical care procedures, or to the use of therapeutic substances (including allergic reactions).

<sup>4</sup> Totals do not include subcategory counts. Total percent is presented here as 100% but may be slightly less or more due to rounding.

—This database contains cases admitted to a hospital bed for "observation," these cases are not included in the Massachusetts Hospital Discharge Database.

—An injury-related "observation" case is defined as any case having an ICD9-CM Nature of Injury Code of 800-999 assigned to any of the ICD9 diagnosis fields [cases having the following codes are excluded if no other valid ICD9-CM code is assigned: Certain Adverse Effects (995.0-995.4, 995.6, 995.7, 995.86, 995.89), Complications of Surgical & Medical Care (996-999), and certain Late Effects (909.3, 909.5)].

—Injury observation cases subsequently dying in the hospital are excluded from this analysis.

—Only Massachusetts residents with valid MA zip codes are included in this analysis.

—Population data used to calculate rates are based on 2004 population estimates released August 11, 2005 by the US Census Bureau. Estimated 2004 Massachusetts population is 6,416,505. Rates are not age-adjusted.

—Categories and groupings are based on a modified version of the CDC's "Recommended framework of E-code groupings for presenting injury mortality and morbidity data." This framework does not provide for intentionality for certain cause categories as indicated by gray shading.

—Injury subcategories are italicized.

—Data were extracted and compiled by the Injury Surveillance Program, Center for Health Information, Statistics, Research and Evaluation, MDPH, February 2006.